

FIG. 1

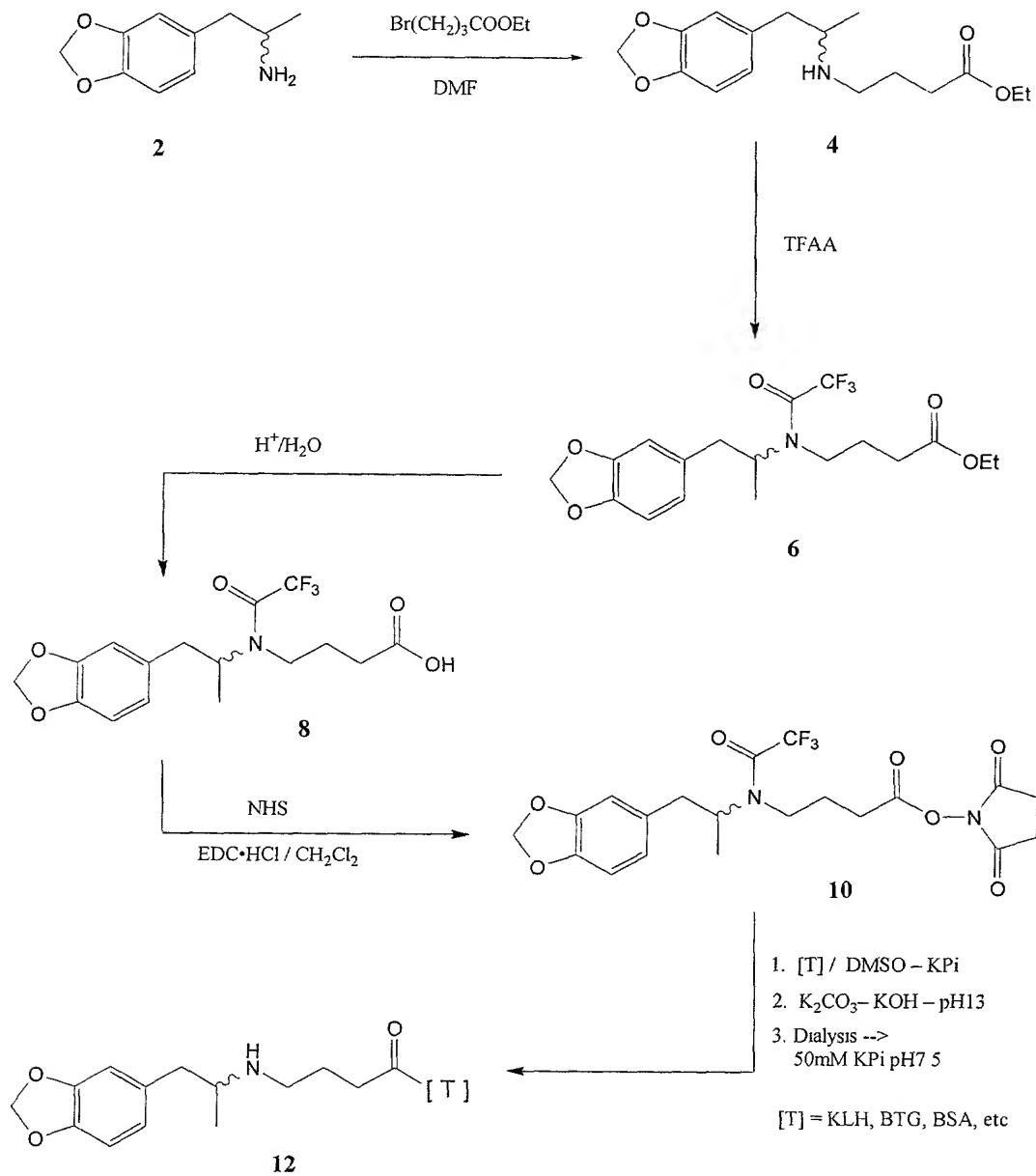


FIG. 2

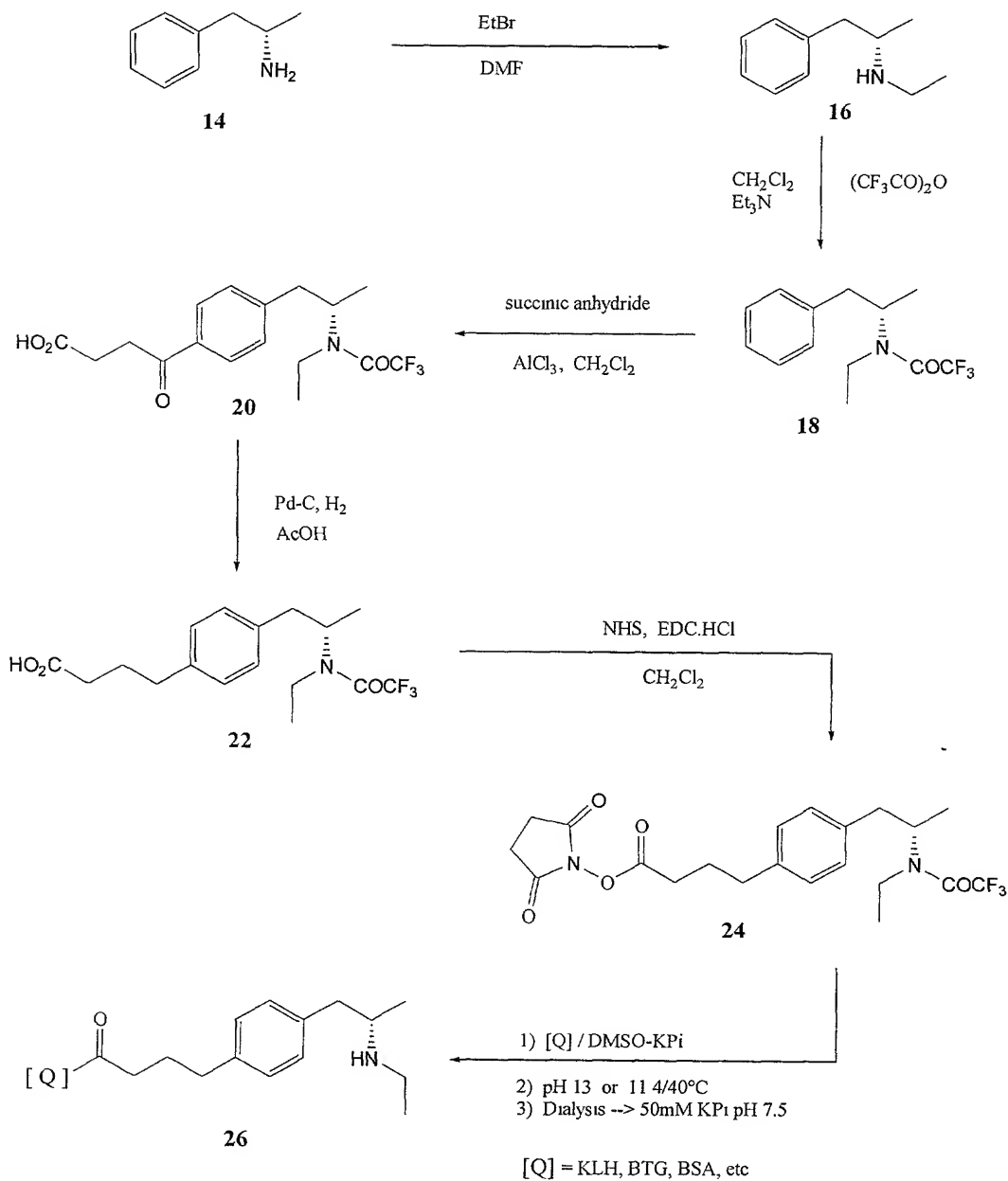
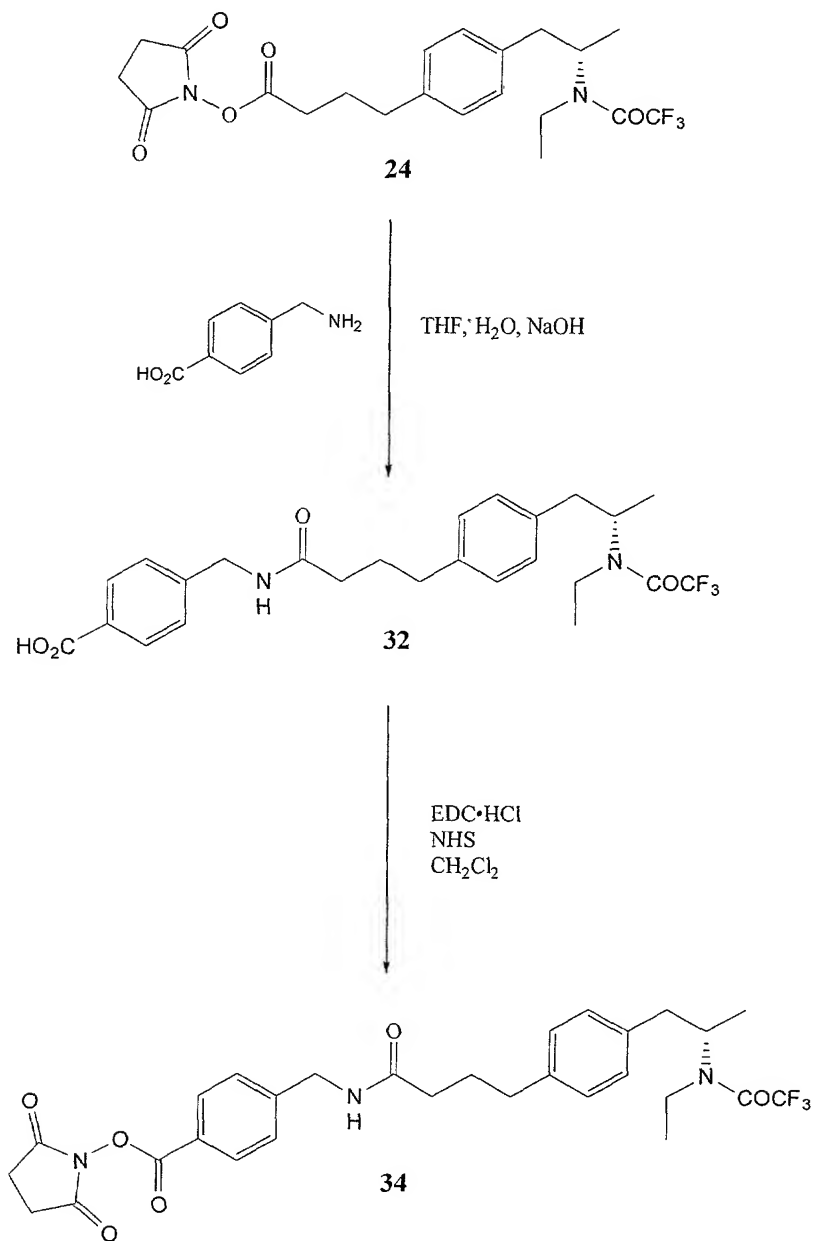


FIG 3



Fusion 1 and 2

1) Immunogen 12 (T = KLH, 12a), classical regimen

- (1) Immunogen **12** (T = KLH, **12a**), classical regimen
- (2) 3.7×10^8 lymphocytes total
- (3) Fusion 1 = R0 myeloma, Fusion 2 = P3 myeloma, 47 plates each
- (4) Screened on MDMA-BSA 12 (T = BSA, **12b**) (in the presence and absence of free MDMA, MDEA, and pseudoephedrine), Amp-BSA 30, and MAMP-BSA 28

1) Immunogen 12 (T = KLH), deprotected, classical regimen

- (1) Immunogen 12 (T = KLH), deprotected, classical regimen
- (2) 1.45x10⁶ lymphocytes, 36 plates
- (3) 12 selected from 1,979 wells tested, same testing protocol as in Fusions 1 and 2.

Percent Cross-Reactivity

Clone	OD ₄₅₀ using 12b-coated plates				OD ₄₅₀ using plates coated with		Percent Cross-Reactivity																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
	12b alone	In the presence of			30 Amp	28 MAMP	MDMA	MDEA	MDA	MBDB	BDB	MDPA	dAM	dMA	IAM	1MA	Ses	Phen	Tyr	Ser	Phe	Leu	Ile	Val	Ala	Gly	Asp	Glu	Pro	His	Arg	Lys	Met	Trp	Thr	Ser	Glu	Asp	Glu	Ala	Val	Ile	Leu	Phe	Tyr	His	Phen	MDMA	MDEA	MDA	MBDB	BDB	MDPA	dAM	dMA	IAM	1MA	Ses																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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FIG. 5

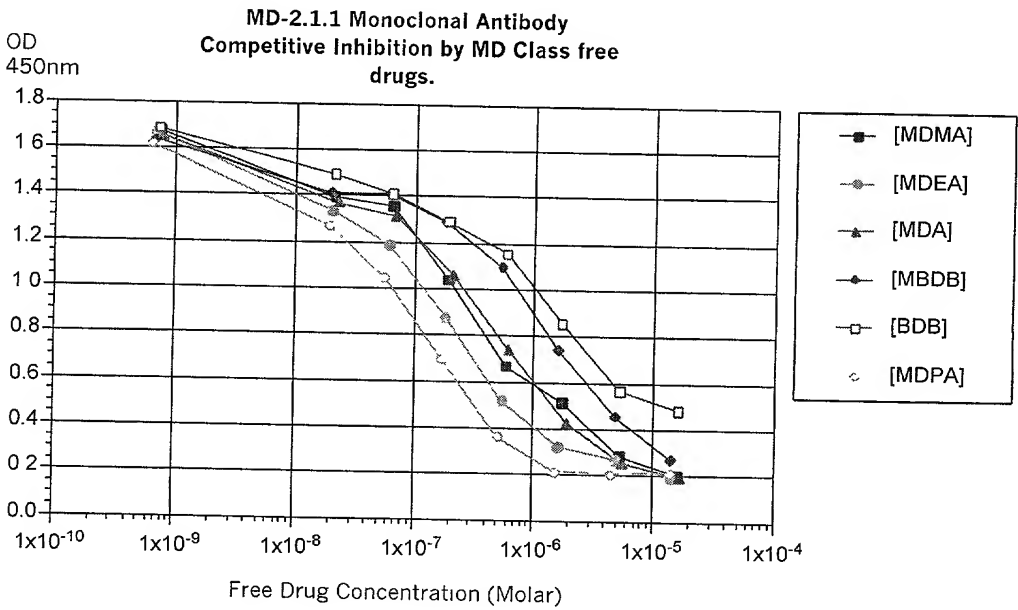


FIG. 6

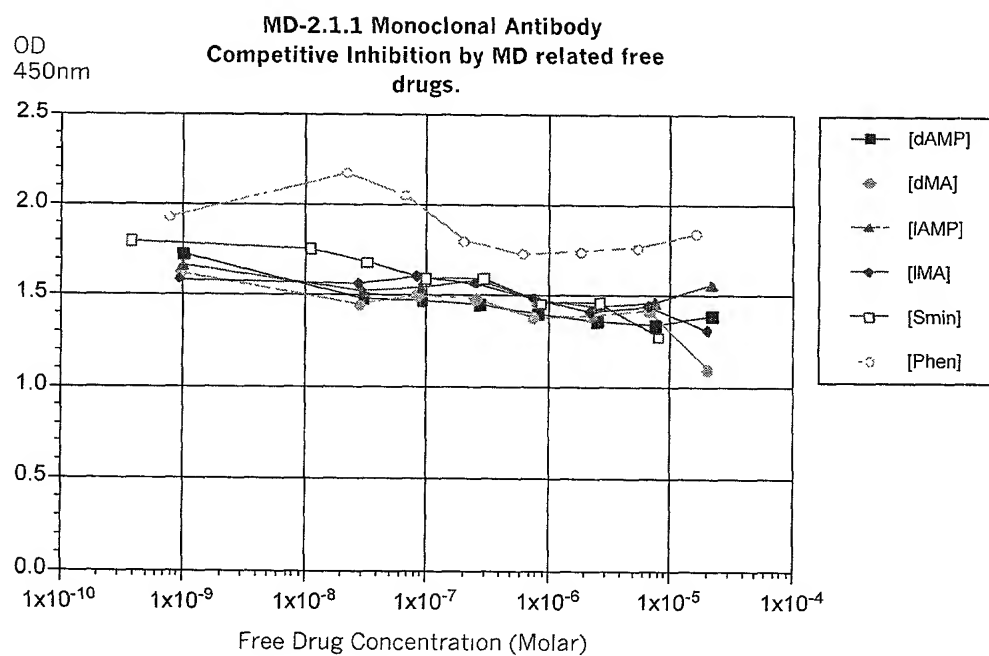


FIG. 7

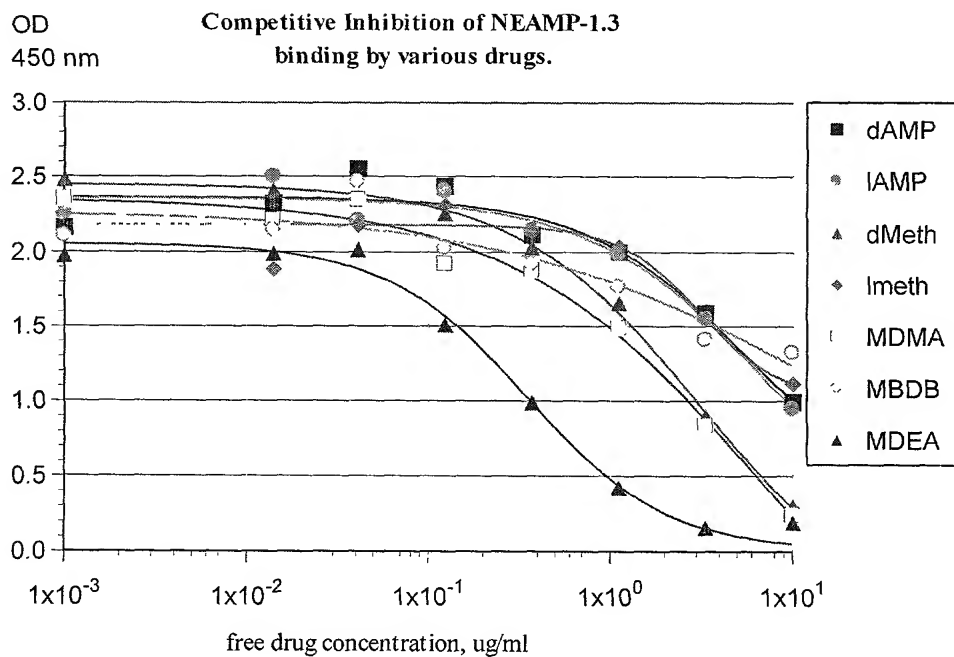


FIG. 8

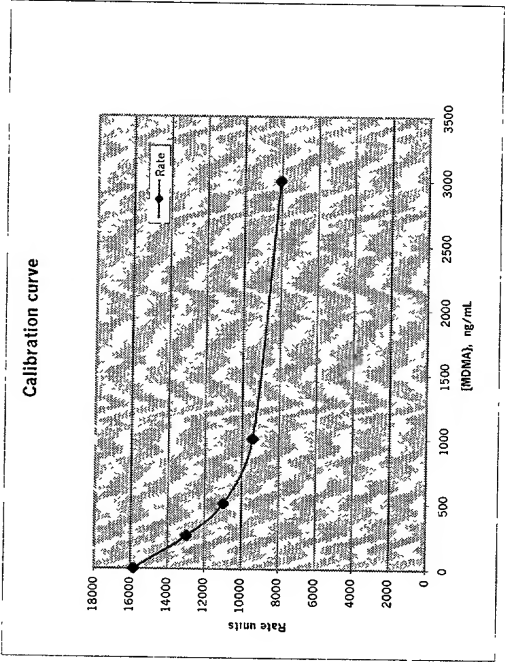
MDMA 2.1.1.1 Cross-Reactivity in Modified Roche OnLine Format

MDMA calibrators

	[MDMA] ng/mL	Rate
S1	0	15842
S2	250	12977
S3	500	10996
S4	1000	9434
S5	3000	8043

Span Data

S1-S2	2866	36.74%
S2-S3	1981	25.40%
S3-S4	1562	20.02%
S4-S5	1391	17.84%
Total	7799	



Drug	Amount spiked ng/mL	Instrument reading	% CR
d-MAMP	625	0	0
d-AMP	625	0	0
MDMA	625	714	114.2
MDEA	625	1864	298.2
BDB	5000	195	3.9
MBDB	5000	625	12.5
PPA	200000	0	0
Phent	200000	0	0
Phendim	200000	0	0
Tyramine	200000	0	0
l-eph	200000	0	0
d-pseudoeph	200000	0	0
l-AMP	200000	0	0
l-MAMP	200000	170	0.09